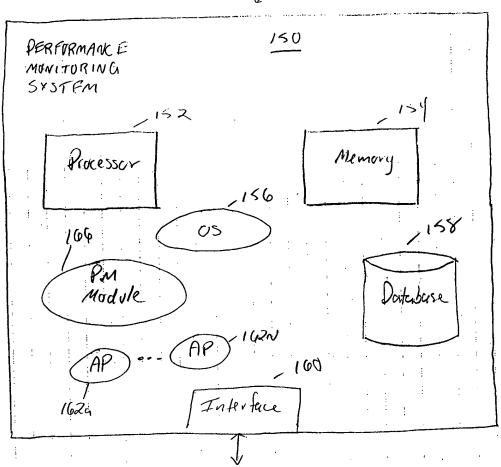


FIG. 1

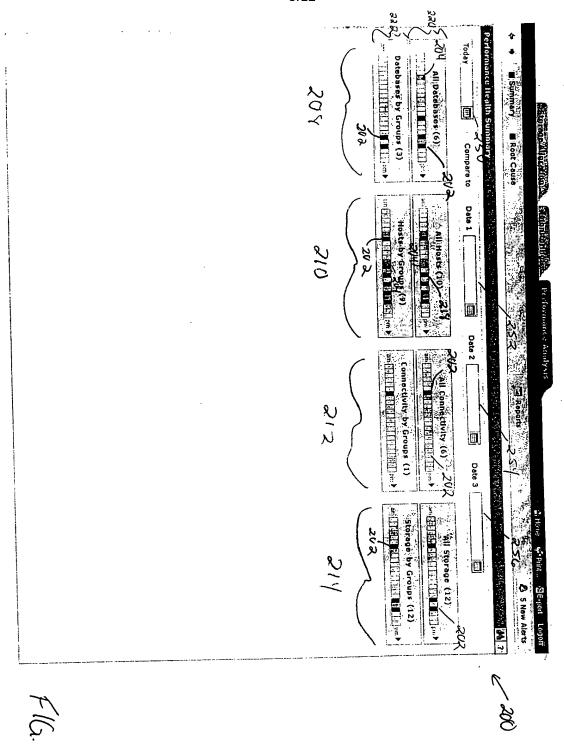
SYSTEM AND METHOD PROVIDING HIGH LEVEL NETWORK OBJECT PERFORMANCE INFORMATION Lee W. Sapiro, et al. EMC-040PUS

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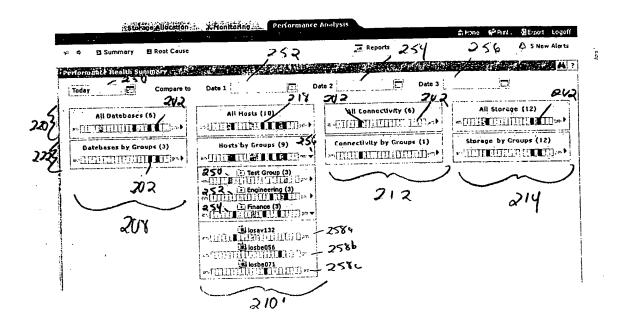


F16.2

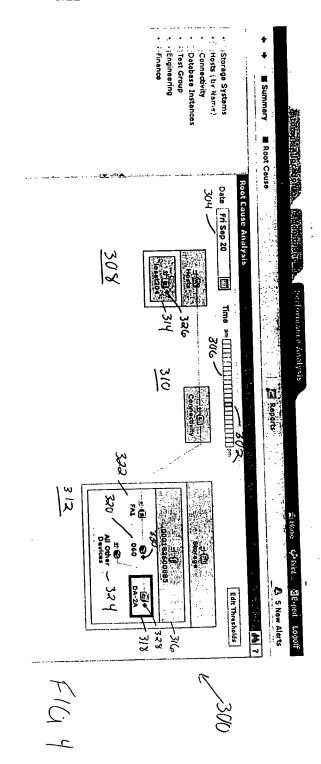


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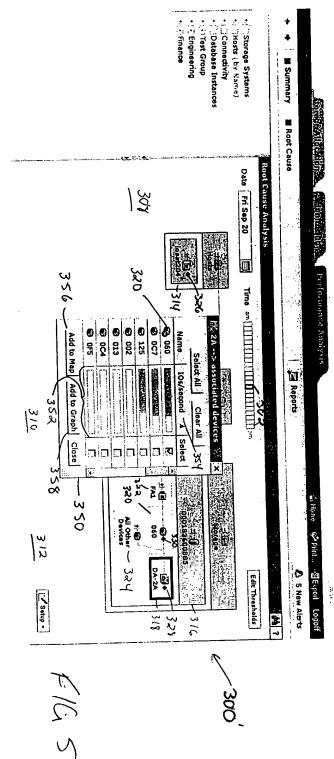
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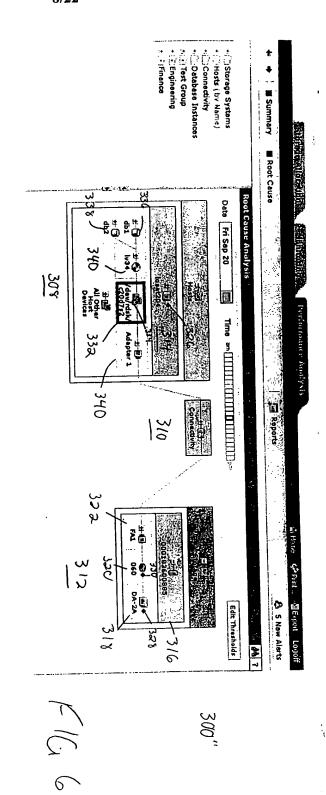


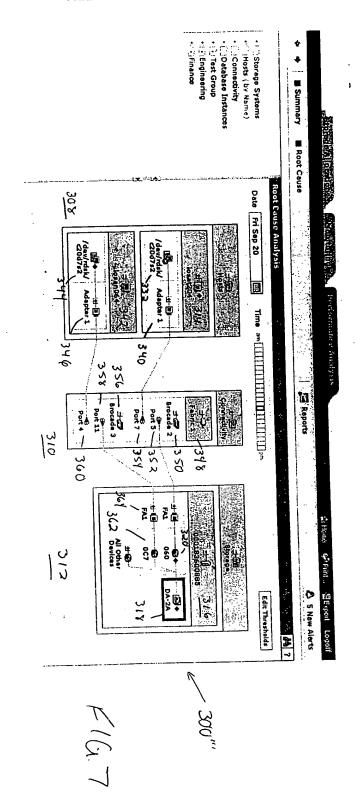


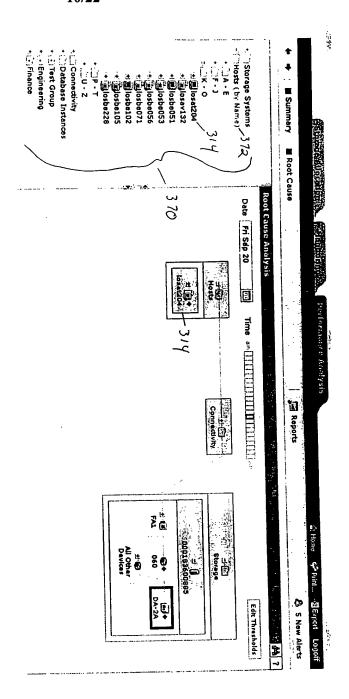
_	±i\$1	ome	Allotation	nitoning Ca. Performance Analysis			4. Horse € P	int Berpoit Logoff	
	<b>≝</b> Summary		Root Cause	्रतः Reports					
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			Object Name	Massage		rested	Categore	Acknowledged B:	
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		虚/	dev/rdsk/c20d7s2	Threshold exceeded on writes/second	Fri Se;	20 14:04:92	Performance-Host	A CONTRACTOR OF THE PERSON NAMED IN CONT	
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( <del>)</del>	Kod- Ciel		porodisky	No VCM-enabled storage arrays detected. Ve	. Fri Se	20 17:00:28	Health Server	👫 eccadmin	
- 23	1 <b>4</b> 4		osav132 losbe071	Volume vg01:dev102(R) is unpaired.		ep 19 20:00	Health.General	fi eccadmin	
\$			losbe071	Volume vg01:dev102(L) is unpaired.	Fri Se	p 20 14:04:32	Performance.Host	🥵 eccadmin	
9	<u></u>	_	MVS7	IBM_VTS: VTS\$VTS1 not collecting enhanced	. Fri Se	p 20 15:15:20	Performance.Host	🗱 eccadmin	
- O		⊸.	MVS7	IBM_VTS:Maximum virtual volume mount=3		p 20 17:05:01	Health Server	cccadmin eccadmin	
۵	6		boroditskyxxxa	User eccadmin has logged off from ECC		p 20 17:35:04	Health.Server	C: eccedmin	
۵	ā		boroditskyxxxa	User eccadmin has successfully logged onto	., FriSe	p 20 17:15°32	Health.General	C eccadmin	
<u>۔</u> ئ			losat200	Collection for 'WLA Daily 00' started for Clarii.	Fri Se	p 20 14:25:31	Health.Server	€ eccadmin	
2	<u>c</u>		MVS7	IBM_VTS:VTS\$VTS1 cache miss percentage .	Mon !	Sep 30 08:15	. Health.General	♥ eccadmin	

Fla. 4A

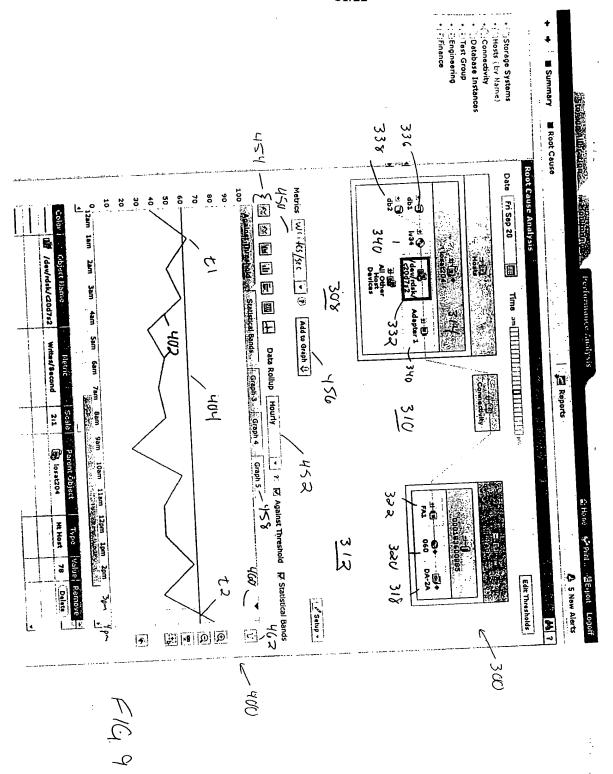


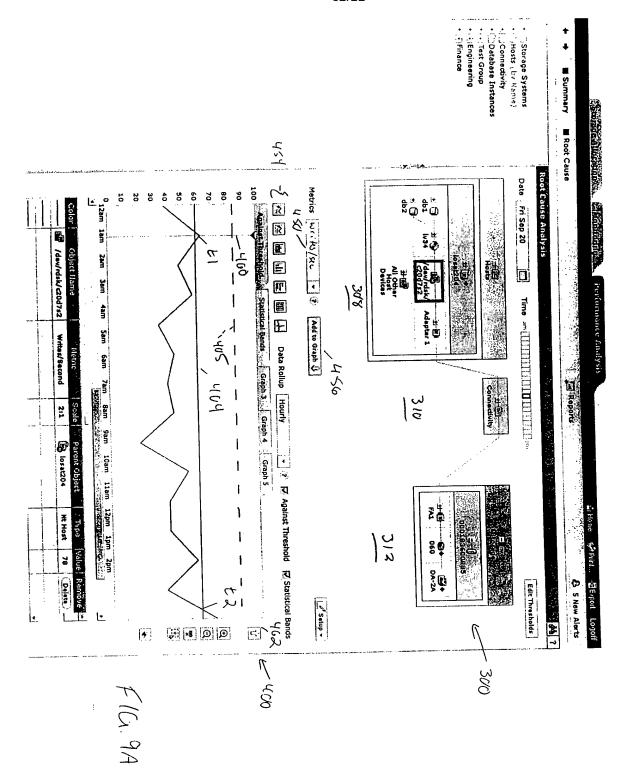






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13/22 Caper. +( ) Storage Systems
+( ) Hosts (by Hame)
+( ) Connectivity
+( ) Database Instances
+( ) Test Group
+( ) Engineering
+( ) Finance Summary Root Cause Date Fri Sep 20 Metrics 50 90 90 90 90 30 20 ô 13 [3] 置 Jam T • 9469 Time Time 440 Add to Graph & E Data Rollup Hourly 805 Graph 3 Graph 4 Graph 5 Ta Reports Scale 8 Against Threshold KI Statistical Bands 12pm 1pm 2pm Type Value Remove P. 2A .SExport Logoff 5 New Alerts Edit Thresholds Setup -A4 ? Ŀ €. 4.

> 12; 14

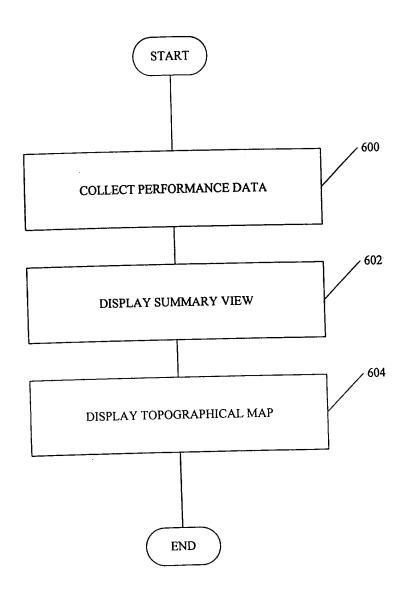
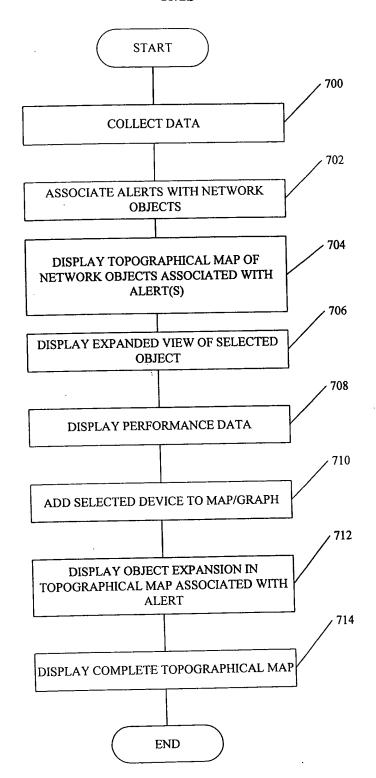
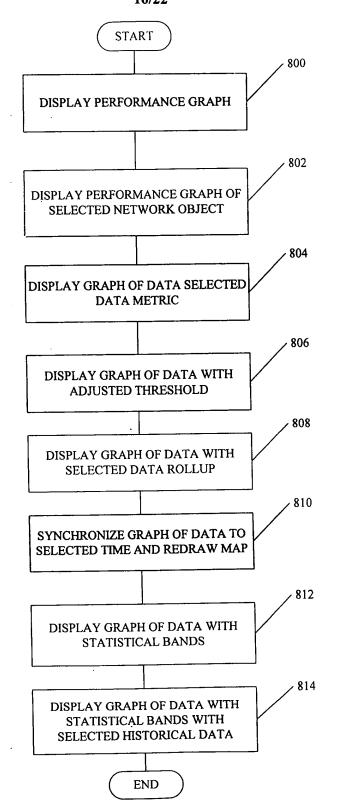


FIG. 11



**FIG. 12** 



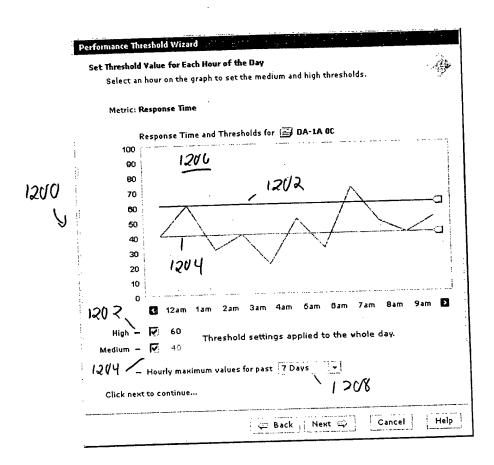
**FIG. 13** 

Performance Threshold Wizard	
Select Objects and Metrics Select the an object type or an individua	al object below.
○ Object Type:	© Objects:
Symmetrix Disk   v or	<b>☑</b> DA-1A 0C
1007	
	Trigger when value is: 1008
Please select a metric:  Metric: Response Time (*)	Greater or Equal v to set threshold
and (optional) - 101  Metric: None   1010	to set threshold
A threshold can be triggered when combination of metrics.	an object exceeds a single metric or a
Click next to continue	
	Back   Next 😜   Cancel   Help

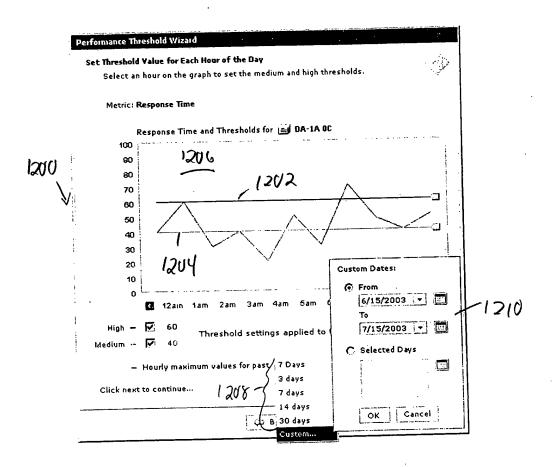
FIG. 14

	Performance Threshold Wizard
	Select Threshold Settings Method  Select a method for setting threshold values.
1100	Set threshold values: G For the whole day $-11029$ C For each hour of the day $-11025$ C Based on historical data $-11020$
<b>&gt;</b>	Apply to  Mon Tues Wwed Thurs Fri Sat Sun  [[] Mon Tues Wwed Thurs Fri Sat Sun  [] Sat Sun
	Click next to continue
	Back Next      Cancel Help

FlG. 15



F16. 16



F1G. 16A

## Performance Threshold Wizard Set Threshold Value for Each Hour of the Day Select an hour on the graph to set the medium and high thresholds. Metric: Response Time Response Time and Thresholds for 🗃 DA-1A OC 100 80 1304 80 70 1304 60 50 40 30 20 10 4am 48 47 38 70 40 18 27 40 30 - Hourly maximum values for past 7 Days Click next to continue... a Back | Next ≅ Help Cancel

FIG. 17

	Performance Threshold W	izard -							
	Review New Threshold Settings Please confirm threshold changes and click "Finish" to save.								
1400	New Thresholds	Object Name	Metric	Threshold Method	Review Alert .				
V	Enisting Thresholds	DA-1A OC	Response Time Writes/second	Hourly Thresholds					
	!								
					1402				
	:								
					•.				
					:				
	i								
	To receive an alert in the Alerts view when thrsholds trigger, check the box in the row of the threshold.								
	1 1 2 1				too to				
			⇔ Back [	Finish Cance	1 Help				

FIG. LY